

What is claimed is:

- [Claim 1] 1. A separation device which comprises:
a top having an opening therein and an internal downwardly extending projection extending therefrom having a channel disposed therein and at least one ingress pathway into said channel, said channel connecting with said top opening;
a bottom having an opening therein and an internal upwardly extending projection extending therefrom having a channel disposed therein and at least one egress pathway from said channel, said channel connecting with said bottom opening;
an impingement surface between said projections; and
a sealing means between said top and said bottom.
- [Claim 2] 2. The device of claim 1 wherein said impingement surface further comprises a downwardly-extending peripheral lip.
- [Claim 3] 3. The device of claim 2 wherein said impingement surface has at least two radially spaced upwardly extending arms from said surface; at least two radially spaced downwardly extending arms from said surface; each of said upwardly extending arms in sliding engagement with said downwardly extending projection from said top; and each of said downwardly extending arms in sliding engagement with said upwardly extending projection from said bottom.
- [Claim 4] 4. The device of claim 3 wherein
said at least two radially spaced upwardly extending arms is at least three radially spaced upwardly extending arms and
said at least two radially spaced downwardly extending arms is at least three radially spaced downwardly extending arms.

- [Claim 5] 5. The device of claim 4 wherein
said at least three radially spaced upwardly extending arms is at least four
radially spaced upwardly extending arms and
said at least three radially spaced downwardly extending arms is at least four
radially spaced downwardly extending arms.
- [Claim 6] 6. The device of claim 3 wherein
said impingement surface moves axially between said projections.
- [Claim 7] 7. The device of claim 6 wherein
said at least one egress pathway is formed by the combination of at least one
peak and one valley at an upper tip of said projection.
- [Claim 8] 8. The device of claim 7 wherein
said at least one egress pathway is at least two egress pathways formed by at
least two valleys at said upper tip of said projection.
- [Claim 9] 9. The device of claim 8 wherein
said at least one ingress pathway is formed by the combination of at least one
peak and one valley at a lower tip of said projection.
- [Claim 10] 10. The device of claim 9 wherein
said at least one ingress pathway is at least two ingress pathways formed by at
least two valleys at said lower tip of said projection.
- [Claim 11] 11. The device of claim 2 which further comprises
an apertured partition means between said top and said bottom.
- [Claim 12] 12. The device of claim 11 wherein
said apertured partition means further comprises a mesh in said apertures.

- [Claim 13] 13. The device of claim 2 which further comprises
a mesh partition means between said top and said bottom.
- [Claim 14] 14. A separation device for removal of a contaminant from a fuel which
comprises:
an essentially hollow cylindrical top having an opening therein and an internal
downwardly extending projection extending therefrom having a channel disposed
therein and at least one ingress pathway into said channel, said channel in
communication with said top opening;
an essentially hollow cylindrical bottom having an opening therein and an internal
upwardly extending projection extending therefrom having a channel disposed
therein and at least one egress pathway from said channel, said channel in
communication with said bottom opening;
an impingement surface in fluid communication with said fuel for condensing said
contaminant after exiting from said egress pathway; and
a sealing means between said top and said bottom.
- [Claim 15] 15. The device of claim 14 wherein said impingement surface further comprises
a downwardly-extending peripheral lip.
- [Claim 16] 16. The device of claim 15 wherein said impingement surface has
at least two radially spaced upwardly extending arms from said surface;
at least two radially spaced downwardly extending arms from said surface;
each of said upwardly extending arms in sliding engagement with said
downwardly extending projection from said top; and
each of said downwardly extending arms in sliding engagement with said
upwardly extending projection from said bottom.
- [Claim 17] 17. The device of claim 16 wherein

said at least two radially spaced upwardly extending arms is at least three radially spaced upwardly extending arms and
said at least two radially spaced downwardly extending arms is at least three radially spaced downwardly extending arms.

[Claim 18] 18. The device of claim 17 wherein

said at least three radially spaced upwardly extending arms is at least four radially spaced upwardly extending arms and
said at least three radially spaced downwardly extending arms is at least four radially spaced downwardly extending arms.

[Claim 19] 19. The device of claim 16 wherein

said impingement surface moves axially between said projections.

[Claim 20] 20. The device of claim 19 wherein

said at least one egress pathway is formed by the combination of at least one peak and one valley at an upper tip of said projection.

[Claim 21] 21. The device of claim 20 wherein

said at least one egress pathway is at least two egress pathways formed by at least two valleys at said upper tip of said projection.

[Claim 22] 22. The device of claim 21 wherein

said at least one ingress pathway is formed by the combination of at least one peak and one valley at a lower tip of said projection.

[Claim 23] 23. The device of claim 22 wherein

said at least one ingress pathway is at least two ingress pathways formed by at least two valleys at said lower tip of said projection.

[Claim 24] 24. The device of claim 14 which further comprises

an apertured partition means between said top and said bottom.

- [Claim 25] 25. The device of claim 24 wherein
said partition means further comprises a mesh in said apertures.
- [Claim 26] 26. The device of claim 14 which further comprises
a mesh partition means between said top and said bottom.
- [Claim 27] 27. A separation device for removal of impurities extracted from a flexible conduit
from a fuel which comprises:
a housing having an inlet and an outlet;
a means for channeling said fuel from said inlet;
an impingement surface in fluid communication with said fuel after said
channeling means for condensing said impurities;
a gravity separation means for collecting said impurities removed from said fuel;
and
a means for channeling said fuel into said outlet.
- [Claim 28] 28. The device of claim 27 wherein
said means for channeling said fuel from said inlet is a radially deflecting means.
- [Claim 29] 29. The device of claim 28 wherein said radially deflecting means comprises
a cone in fluid communication with said inlet.
- [Claim 30] 30. The device of claim 29 wherein said cone is
a frustoconical cone.
- [Claim 31] 31. The device of claim 28 wherein said radially deflecting means is
a capped upwardly extending projection from said inlet having at least one
horizontal aperture in said projection.

- [Claim 32] 32. The device of claim 27 which further comprises
an apertured partition means in said housing.
- [Claim 33] 33. The device of claim 32 wherein
said partition means further comprises a mesh in said apertures.
- [Claim 34] 34. The device of claim 27 which further comprises
a mesh partition means between said top and said bottom.